1/1 WPAT - ©Thomson Derwent

AN - 1968-19961Q [00]

TI - Polymeric toning agent pref acrylic for

DC - A00

PA - (RICO) RICOH KK

NP - 4

NC - 4

PN - BE-717572 A 0 DW1968-00 *

JP71006157 B 0 DW1971-08

US3585140 A 0 DW1971-32

DE1772825 B 0 DW1972-30

PR - 1967JP-0044062 19670710

AB - BE-717572 A

A toning agent for an electrophotographic developer comprises a pigment onto which a vinyl copolymer is graft polymerised, or a mixture of pigment and copolymer. The copolymer contains at least one monomer from each of 3 groups (1) R1CH=CXR1, (2) R1CH=CYR1 and (3) R1CH=CZR1 where R1 is H, COOH, CN, Cl, CnH2n+1 (1 <= n<= 5); X is from -COOR2 (in which R2 is CnH2n+1 (4 <=n <= 20), -CnH2n+1 (4 <=n <= 20) and -OCOCnH2n+1 (4 n 20); Y is -COO(CH2)n where n is 2 to 4 and R3, R4 are H, C1 to 4 alkyl, phenyl, COOH, OH, COOR5 in which R5 is C1 to 3 alkyl, -CH2CH2CN, -CH2CH2OH, -CH2CH2-halogen or; Z is COOR6 (in which R6 is -CH2C6H5, -CH2CH2C6H5, or -NHCH2OH, -NHCH2OR7 (in which R7 is C1 to 4 alkyl, CnH2n+1 (1<= n<=7) or H.

MC - CPI: A04-D A04-E A04-F06E A12-L02

UP - 1968-00

UE - 1971-08; 1971-32; 1972-30

09/331,729 FOR 10/1/2002